# Picosecond Fluorescence of Intact and Dissolved PSI-LHCI Crystals

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# Supplementary Material

## Supplementary Figure Legends

Figure 9. Decay Associated Fluorescence Spectrum ($\tau = 6$ ps) of pinacyanol iodide in methanol at 294 K. Excitation was at 475 nm, fluorescence was detected with the streak-camera setup.

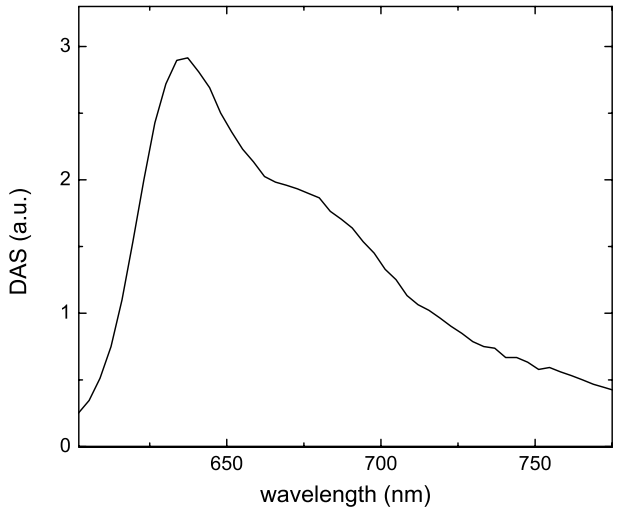
Figure 10. Sums of fluorescence decay curves of a PSI-LHCI crystal measured at room temperature with FLIM. Data were corrected for background signal, and normalized in the peak. Excitation was at 860nm, at energies as indicated, detection was at 670-730nm.

Figure 11. Decay Associated Spectra (DAS) of the slowest components of PSI-LHCI in solution at 287K, excited at 410nm and at 475nm (dashed), scaled on the total area of the 61 ps and 143 ps DAS (same data as in Figure 3 of the main text, but multiplied by 100).

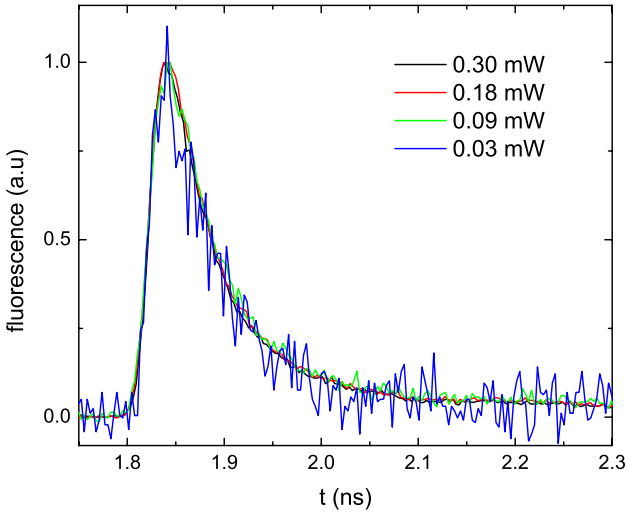
Figure 12. Decay Associated Spectra (DAS) of PSI-LHCI in solution at 287K, upon excitation of only core or only LHCI pigments (dashed). DAS were calculated from linear combinations of the DAS in Figure 3 of the main text, with 65 % core excitation at 410 nm, and 30 % at 475 nm. See text for more details. DAS are scaled to equal area (by multiplication of DAS of 61 ps, 143 ps and 0.37 ns, respectively, by 34.9, 11.5 and 1049 for core excitation, and by 21.9, 67.9 and 670 for LHCI excitation).

## Supplementary Figures

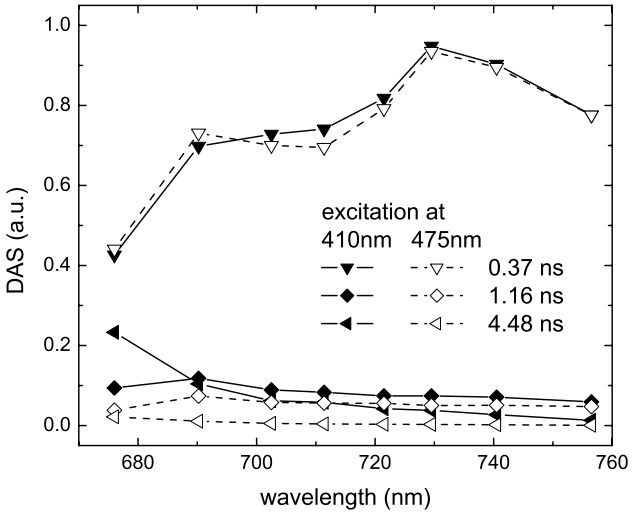
Supplementary Figure 9.



Supplementary Figure 10.



Supplementary Figure 11.



Supplementary Figure 12.